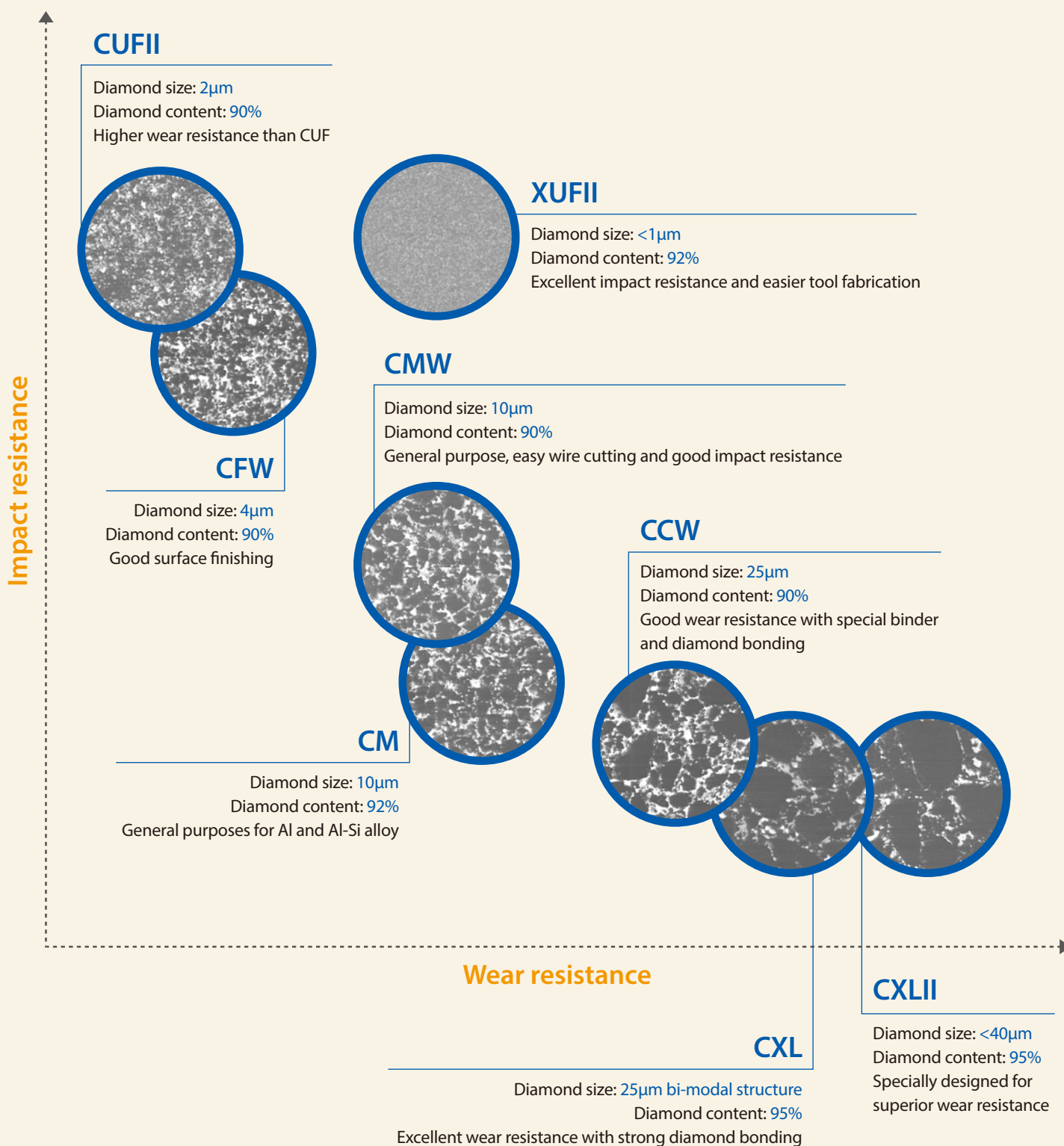


I POL

ILJIN Polycrystalline Diamond

Grade

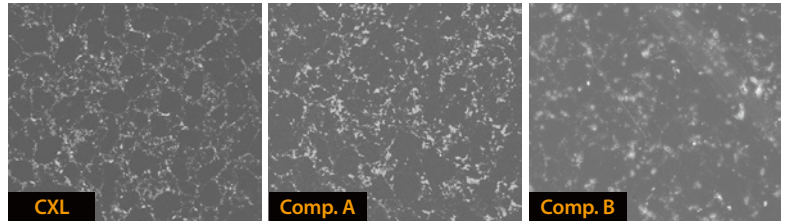


Introduction

- Diamond size: 25 μ m bi-modal structure
- Diamond content: ~95%

Characteristics & Application

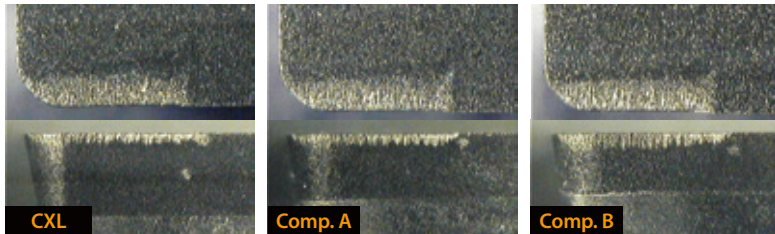
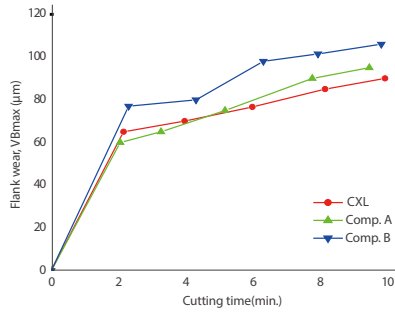
- Excellent wear resistance with strong diamond bonding



Performance - Continuous turning

Material	DURALCAN (Al-20%SiC)
Speed	500m/min
D.O.C	0.5mm
Feed	0.2mm/rev
Coolant	Dry
Insert type	SPGN090304
Holder type	CSDPN2525-M12

*Hannover university test



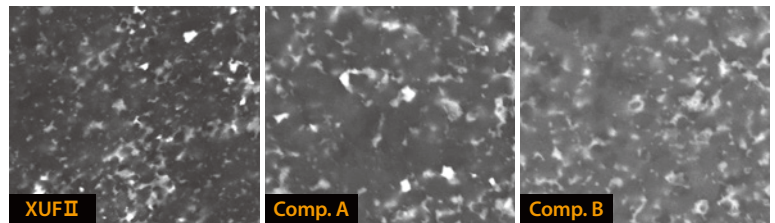
Continuous turning

Introduction

- Diamond size: <1 μ m
- Diamond content: ~92%

Characteristics & Application

- Excellent impact resistance and easier tool fabrication
- Superior uniformity between grains and binders
- Diamond size <1 μ m, diamond content over 90%
- Optimized sintering processing for controlling microstructures
- Excellent wear, impact and chipping resistance
- High precision machining and long tool life, good fabrication
- Applicable Al part and non-ferrous alloy (Ti, Cr, Cu alloy, ceramics, etc.)



Performance - Face milling

Material	MMC(Al-20%SiC)
Speed	1,000m/min
D.O.C	0.5mm
Feed	0.25mm/rev
Coolant	Dry
Insert type	CDEW1504R-XAF
Cutter	APD125R-A8Z, Ø125

